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CLAIMS

1. An image forming apparatus for forming an image on a recording medium by ejecting drops of recording fluid from a recording head, comprising:

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a waste tank having a space for containing waste fluid; obtaining means for obtaining a correlation value that has a correlation to a deposited state of the waste fluid in the space within the waste tank; and

judging means for judging whether or not the correlation value exceeds a reference value.

- 2. The image forming apparatus as claimed in claim

 1, wherein the obtaining means obtains the correlation value

 from a number of times a recovery process is carried out to

 eject from the recording head recording fluid that does not

 contribute to image formation.
- 3. The image forming apparatus as claimed in claim
 20 1 or 2, wherein the waste tank includes an absorbing member
 for absorbing and holding the waste fluid, and detection means
 for detecting a fully absorbed state of the absorbing member.
- 4. The image forming apparatus as claimed in claim
 25 3, wherein a volume ratio of the space and the absorbing

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member within the waste tank is in a range of 1:4 to 3:2,

- 5. The image forming apparatus as claimed in any of claims 1 to 4, wherein the reference value is changed based on a recovery process frequency at which the recovery process is carried out.
- 6. The image forming apparatus as claimed in claim 5, wherein the recovery process frequency is obtained based on 10 a total number of recovery processes carried out during a total used time of the waste tank.
 - 7. The image forming apparatus as claimed in any of claims 1 to 4, wherein the reference value is constant.

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- 8. The image forming apparatus as claimed in any of claims 1 to 7, wherein the correlation value is corrected depending on an environment condition.
- 9. The image forming apparatus as claimed in any of claims 1 to 8, wherein a usable state of the image forming apparatus is limited when the correlation value exceeds the reference value.
 - 10. The image forming apparatus as claimed in any

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of claims 1 to 9, wherein the recording fluid includes a water-dispersible coloring agent, a wetting agent and a penetrating agent, and has a viscosity increase rate due to moisture evaporation that is 1.0 or less up to a moisture evaporation rate of 30% with respect to a total weight of the recording fluid and is 50 or greater for moisture evaporation rates of higher than 30% and less than or equal to 45%.